



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/724,798	12/01/2003	Daniel Edward Bowen III	DN2001-163D11	5529

7590 10/07/2005

The Goodyear Tire & Rubber Company
Department 823
1144 East Market Street
Akron, OH 44316-0001

EXAMINER

CHOI, LING SIU

ART UNIT	PAPER NUMBER
----------	--------------

1713

DATE MAILED: 10/07/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/724,798

Applicant(s)

BOWEN ET AL.

Examiner

Ling-Siu Choi

Art Unit

1713

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1-5 and 11-20 is/are allowed.
- 6) ☐ Claim(s) ____ is/are rejected.
- 7) ☒ Claim(s) 6-10 is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. ____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 09/06/05.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: ____.

DETAILED ACTION

1. This Application is a Division of US Application No. 10/222,739, filed August 16, 2002.

Claims 1-20 are now pending, wherein claims 1, 6, 11, and 12 are independent ones.

Claim Objections

2. Claims 6-10 are objected to because of the following informalities:

Claim 6, structural formula, lines 28 and 31-32, the numbers used to represent the compounds are suggested to be changed from (1)....(3) to (5)....(7) respectively;

Appropriate correction is required.

Allowable Subject Matter

3. Claims 1-20 are allowable over the closest references: Ender (US 3,287,291), Nakamura et al. (US 5,973,067), and Britton (US 5,618,951).

A process to synthesize a modified silane compound, comprising the contact of	
I	the salt of a cyclic organic compound shown in claim 1 wherein $Y = [O, S, N, \text{ and } P]$ $Z = [C(R)R', O, S, N, \text{ and } P]$
II	a silicon containing compound of the structural formula: $R''_{4-n}SiA'_n$

(summary of claim 1)

A process to synthesize a modified silane compound, comprising the contact of	
I	the salt of a cyclic organic compound shown in claim 1 wherein $Y = [O, S, N, \text{ and } P]$ $Z = [C(R)R', O, S, N, \text{ and } P]$
II	a silicon containing compound of the structural formula: $R''_{4-n}SiA'_n$

(summary of claim 6)

Ender discloses an organosilicon compound represented by the formula of $Si[(OCH_2)_nOCH_3]_4$ which includes $Si(OCH_2OCH_3)_4$, $Si[(OCH_2)_5OC_4H_9]_4$, $Si(OCH_2OC_2H_5)(OCH_2OCH_3)(OCH_2OCH_2OC_2H_5)(OCH_2OCH_2OCH_3)$, or $Si(OCH_2OCH_3)[(OCH_2)_3OCH_3][(OCH_2)_2OCH_3][(OCH_2)_4OCH_3]$ (col. 1, lines 15-20; col. 2, lines 14-26). However, Ender does not teach or fairly suggest a process to prepare the claimed modified silane compound.

Nakamura et al. disclose an alkenyltrialkoxysilane which can be allyltrimethoxysilane, allyltriethoxysilane, allyltri(ethoxymethoxy)silane, butenyltrimethoxysilane, hexenyltrimethoxysilane, or hexaenyltriethoxysilane (claims 1 and 3). However, Nakamura et al. do not teach or fairly suggest a process to prepare the claimed modified silane compound.

Britton discloses 2,2-difluoroketene silyl acetal (claim 1, Formula I). However, Britton does not teach or fairly suggest a process to prepare the claimed modified silane compound.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the

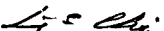
Application/Control Number: 10/724,798

Page 4

Art Unit: 1713

examiner should be directed to Ling-Siu Choi whose telephone number is 571-272-1098.

If attempt to reach the examiner by telephone are unsuccessful, the examiner's supervisor,
David Wu, can be reach on 571-272-1114.


LING-SUI CHOI
PRIMARY EXAMINER

September 28, 2005